

# OPTIWAY

ROBUST, EFFICIENT AND  
RELIABLE LED BULKHEAD

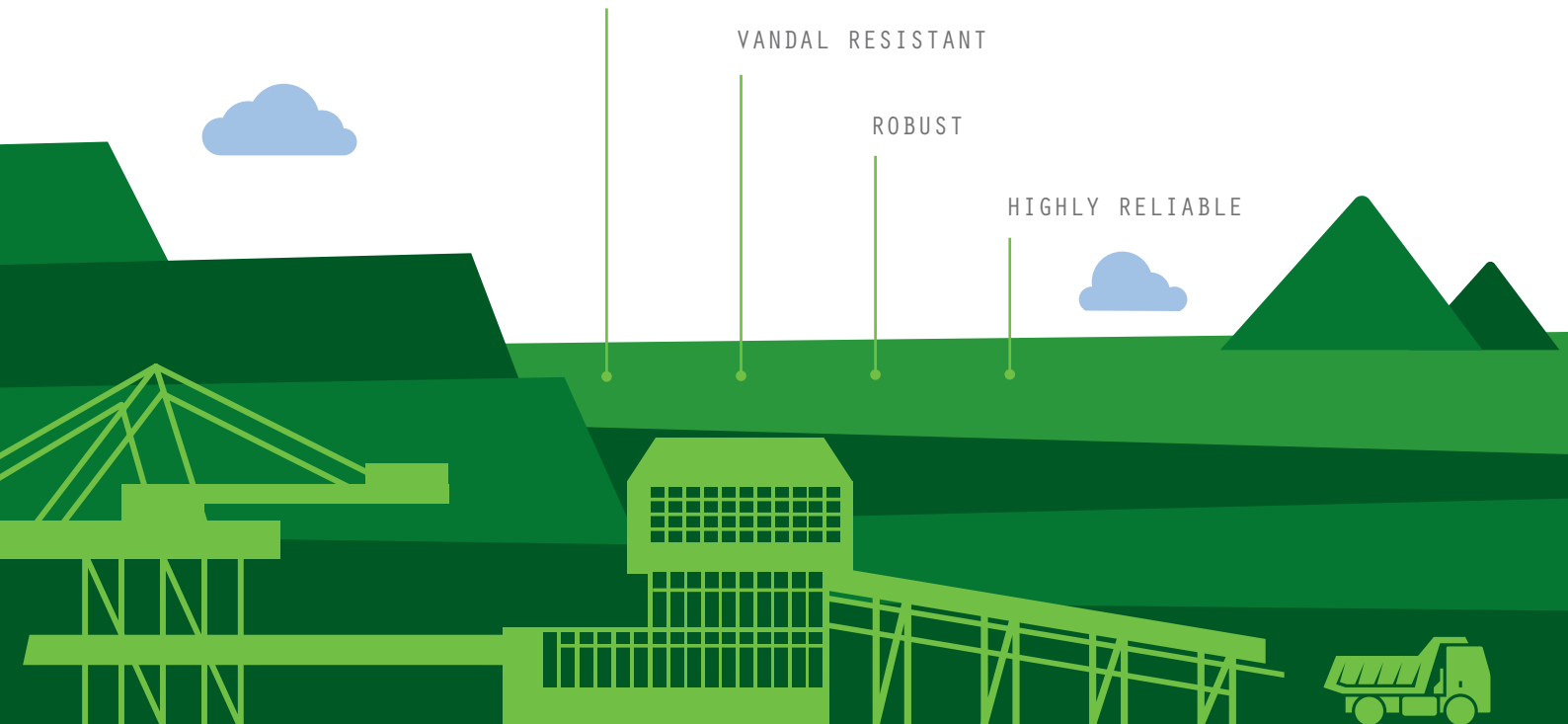


HIGHLY VERSATILE

VANDAL RESISTANT

ROBUST

HIGHLY RELIABLE



**BEKA Schröder**  
Experts in lightability™

# OPTIWAY



## A SMALL, HIGHLY VERSATILE AND ROBUST LOW-POWER LED BULKHEAD

**Introducing one of our most versatile and reliable industrial luminaires: OPTIWAY. It can be mounted on any structure, is highly robust and offers a high photometric performance.**

The OPTIWAY utilizes the latest LED technology and unique optical distribution that suits most lighting applications. Its small size and robust design will provide the necessary amount of light for any low-power bulkhead application.

The OPTIWAY is suitable for use in various industrial environments, which include underground haulage, outdoor mining areas, oil and gas refineries, food and beverage plants, manufacturing process plants and any application that requires a low power and robust luminaire. The uniquely designed optional OPTILINK plug-in system simplifies the installation process significantly, especially for underground mining applications.

The high quality of light and the large range of input voltages make it possible to use this bulkhead for only 110VAC supply, 230VAC or optionally ranging from 90-305VAC. The design and choice of materials used make the OPTIWAY highly vandal resistant.

Various mounting options, including a wall mounting bracket, hook bracket, or mounting by simply using a metal or plastic cable tie, make this luminaire a truly versatile low-power bulkhead.

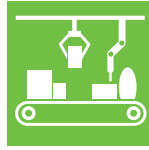
# MAIN APPLICATIONS



HAULAGE  
LIGHTING



WAREHOUSE



ASSEMBLY  
LINE



INDUSTRIAL  
HALL



STAIRWAY



STATION  
CORRIDOR

OTHER ENVIRONMENTS WHERE OPTIWAY OFFERS  
KEY CUSTOMER BENEFITS



TRANSPORT FACILITIES



INDUSTRIAL PLANT



RETAIL FACILITIES



RECREATIONAL FACILITIES

## CONSTRUCTION DETAILS

The OPTIWAY consists of a polycarbonate or acrylic housing, which is sealed by means of a silicone gasket. The specially designed closing mechanism seals this luminaire permanently to IP 66 and prevents internal access, which would lead to damage and the reduction of the lifetime and performance of the luminaire.

The newest LED technology has been utilized while limiting the maximum wattage and the lumen output in order to optimize the thermal environment of the electronic components. Thereby, the bulkhead is able to last at least 50 000 hours in the most extreme environment.

Electronic temperature monitoring prevents overheating of LEDs and power supply (ThermiX®). To maximize the reliability of the LEDs, the photometric engine and control gear compartment are completely sealed to IP 66. This ensures that the photometric performance is maintained over time.

The OPTIWAY is designed for LED light sources between 8W and 13W.



# KEY FEATURES



- › Designed and manufactured in **South Africa**
- ›  $T_a$  of up to **45°C<sup>(\*)</sup>**
- › **Robust corrosion-resistant** housing and diffuser
- › **Latest LED technology** with maximised system efficacy
- › **Optimised** optical distribution
- › **Maintenance-free** lifespan of 50 000 operating hours
- › Various **mounting options** available
- › Standard version **supplied with 500mm** heavy duty, flame retardant, oil resistant rubber-sheathed **HO7 cable**
- › Optional **OPTILINK plug-in system** for underground mining applications
- › Available in **neutral white light (4000K)** with a CRI >80
- › **Surge protection** 3kV/3kA - Optional: 10kV/10kA



<sup>(\*)</sup> Not applicable to all configurations

# KEY CHARACTERISTICS

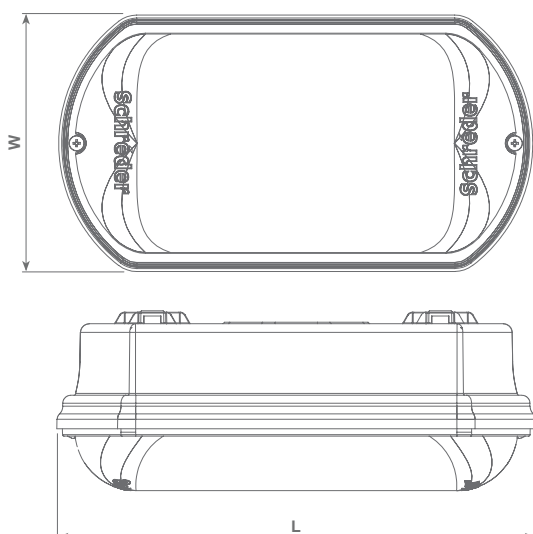
	OPTIWAY ECO	OPTIWAY
Typical luminaire output flux (range) <sup>(*)</sup>		1,200 to 1,600lm
Power consumption (W) <sup>(*)</sup>		8W to 13W
Lifetime residual flux @ t <sub>a</sub> 25°C		80% @50,000h
Colour temperature		Neutral white (4000K)
Colour Rendering Index		CRI 80
Optical compartment tightness level rating		IP 66 <sup>(**)</sup>
Control gear tightness level rating		IP 66 <sup>(**)</sup>
Impact resistance (polycarbonate)		IK 10 <sup>(***)</sup>
Nominal voltage	230V – 50Hz	90-305V – 50Hz
Electrical class		II
Operating temperature (T <sub>a</sub> )		-20°C to +45°C
Surge protection		3kV (10kV optional)
Power factor		≥0.95
<b>MATERIALS</b>		
Body		Polycarbonate
Protector		Polycarbonate

<sup>(\*)</sup> The initial flux and power consumption of the luminaire are indicative values and valid for 25°C ambient temperature. The real flux output of the luminaire depends on environmental conditions (e.g. temperature) and may vary with specific configurations. Communicated values are subject to tolerances in technology. To check if this document refers to the latest information available, please visit [www.beka-schreder.co.za](http://www.beka-schreder.co.za)

<sup>(\*\*)</sup> according to SANS 60598 – <sup>(\*\*\*)</sup> according to SANS 62262

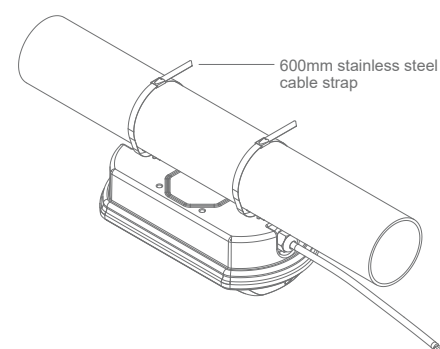
## DIMENSIONS | WEIGHT

	OPTIWAY
L	248mm
W	134mm
H	87mm
 KG	0.4kg

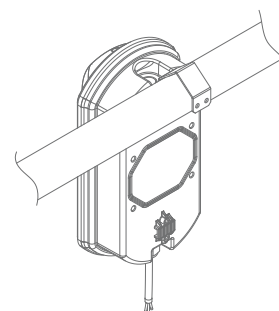


## MOUNTING OPTIONS

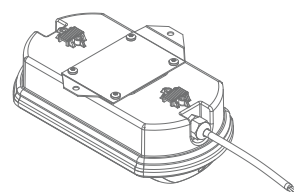
### Strap mounting (standard)



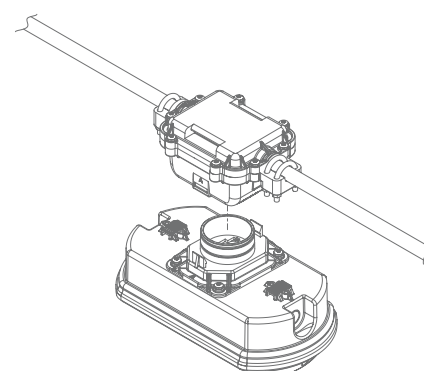
### Hook mounting (optional)



### Surface mounting (optional)



### Connect (optional)



# PHOTOMETRY

## OVERVIEW

Lifetime residual flux @  $T_a$  25°C <sup>(\*\*)</sup>

Number of LEDs	Neutral white (4000K)	16 LED	@50.000h
LED Current: 350mA	Nominal flux (lm)*	1220	80%
	Power consumption (W)	10	
LED Current: 500mA	Nominal flux (lm)*	1630	
	Power consumption (W)	13	

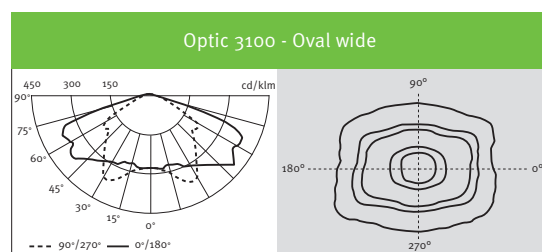
<sup>(\*)</sup> The nominal flux is an indicative LED flux @  $T_j$  25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire.

The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

<sup>(\*\*)</sup> In accordance with LM-80 – TM-21

Electronic data files can be downloaded from [www.beka-schreder.co.za/knowledge-base](http://www.beka-schreder.co.za/knowledge-base)

# LIGHT DISTRIBUTIONS



# ORDERING DATA

DESCRIPTION	SUPPLY VOLTAGE (V)	LINE CURRENT (A)	LEDS	CURRENT (mA)	LUMEN	MASS (KG)
<b>STANDARD VERSION</b>						
OPTIWAY 10W	90-305 50Hz	0.03 - 0.09	16	350	1 220	0.4
OPTIWAY 13W	90-305 50Hz	0.05 - 0.15	16	500	1 630	0.4
<b>ECO VERSION</b>						
OPTIWAY ECO 8W	230V ±10% 50Hz	0.04	16	350	900	0.6

Standard optic: 3100 - oval wide

Standard CCT: Neutral white (4000K)

# OPTIONS AND ACCESSORIES

## ELECTRICAL

Supply Voltage 110V ±10% 50Hz<sup>(1)</sup>

## MECHANICAL

Body & Protector High-impact acrylic

Hook mounting

Mounting Surface mounting

Connect

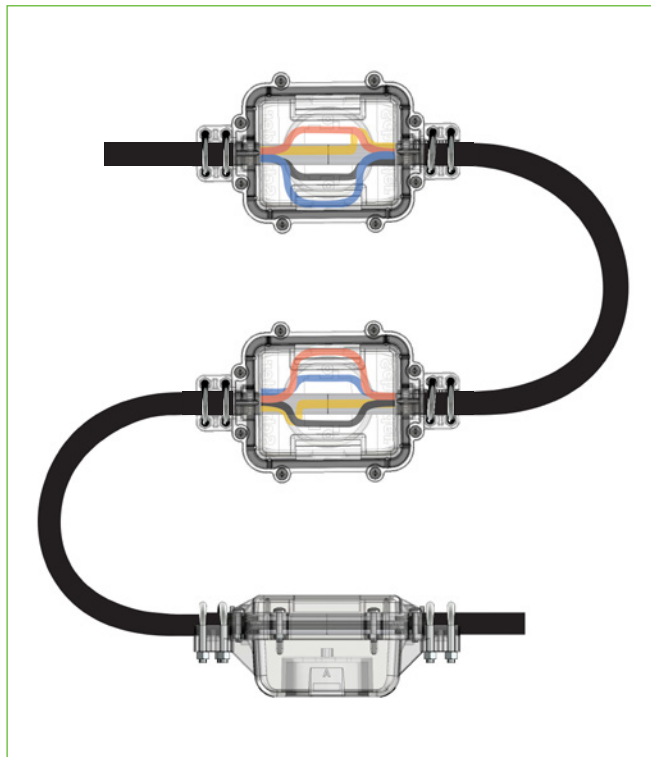
<sup>(1)</sup> Eco version

# OPTILINK

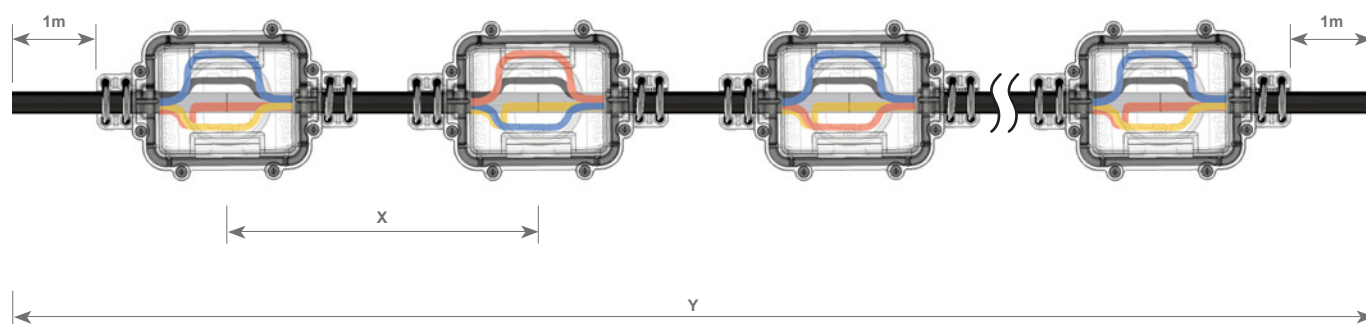
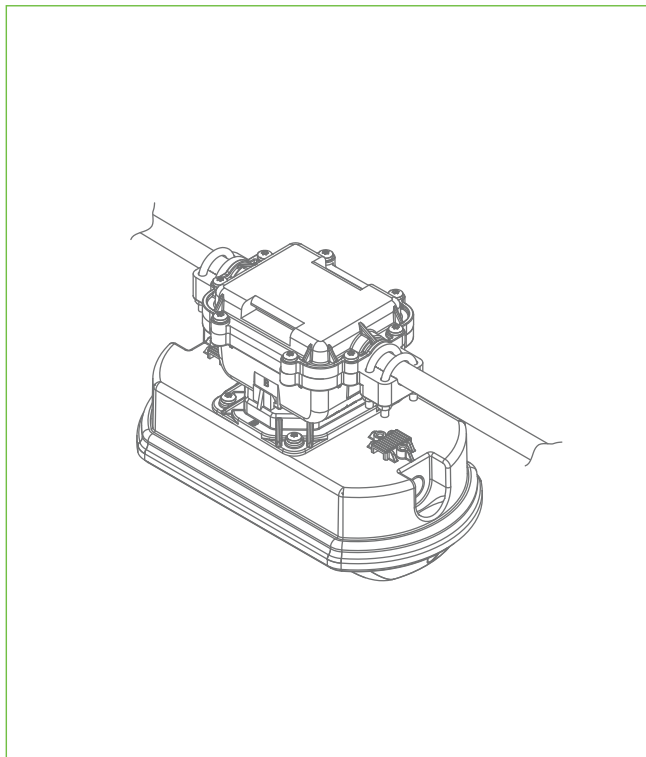
The OPTILINK system is a pre-wired plug-and-play system designed to mount the OPTIWAY Connect at predefined spacings by means of a tool-less plug-in system. Each connection box is pre-wired using armoured cable with alternating phase (blue, yellow and red) on each one of them. The OPTILINK system is supplied in 100m system lengths.

Once the OPTIWAY Connect is plugged onto the OPTILINK system, it cannot be removed, thus making it highly vandal- and theft-proof.

## OPTILINK Cable Assembly



## OPTILINK with OPTIWAY Connect



## ORDERING DATA\*

	X	Y	NUMBER OF CONNECTION BOXES
OPTILINK 5	5m	102m	21
OPTILINK 7.5	7.5m	107m	15
OPTILINK 10	10m	102m	11

\*Excludes OPTIWAY Connect luminaire



SAFETY



WELL-BEING



SUSTAINABILITY



SAVINGS



SOLUTIONS



OPTIMAWAY 00906

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